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RESEARCH  
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INSTRUMENT CORP.  
530 MAIN ST., ACTON, MASS. 01720  
TEL: 617-333-7733

Nelson Systems Corporation  
P. O. Box 1546  
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HERE IS THE INFORMATION YOU REQUESTED

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RETURN REQUESTED

**RESEARCH**  
**and ANALYTICAL**  
**INSTRUMENTATION**

VUV • VISIBLE • IR  
SPECTROSCOPY



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**McPHERSON INSTRUMENT CORPORATION**



## If your RESEARCH carries you into any one of the following areas of investigation\* . . .

- those problems peculiar to high resolution spectroscopy such as wavelength standards
- the determination of the ionization potentials of atoms and molecules and the theoretical interpretation
- the determination of the dissociation energies of diatomic molecules and the bond strengths of polyatomic molecules
- the absorption coefficients of molecules, especially those of importance to astrophysics
- the development of light sources to produce strong emission continua and strong line spectra
- those problems related to gratings such as discovering new high reflectance coatings
- the classification of spectra, atomic, diatomic, and polyatomic, along with the theoretical interpretation of the electronic states and the vibrational and rotational assignments . . .

### THIS IS McPHERSON'S WORLD

Wavelength	Electron Volts
10 Å	1,240.0 eV
100 Å	124.0 eV
1,000 Å	12.4 eV
2,000 Å	6.2 eV
6,000 Å	2.1 eV

**THEN . . . some one of the  
FIFTY-plus-instruments  
built by McPHERSON  
is tailor made for you.**

\*From "Some unsolved Problems in the Vacuum Ultraviolet"  
P. G. Wilkinson.



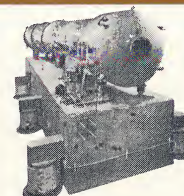
# FROM



## TINY SPECTROMETERS

FIXED POSITION  
RANGE 1,900A - 10,000A

# TO



## LARGE LABORATORY INSTRUMENTS

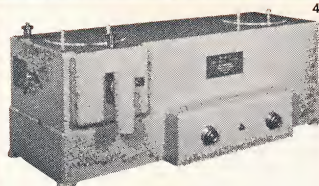
21-FOOT VACUUM EAGLE MOUNT  
FOR HIGH RESOLUTION PHOTOGRAPHIC  
AND ELECTRONIC RECORDING OF SPECTRA  
RANGE 300A - 12,000A\*



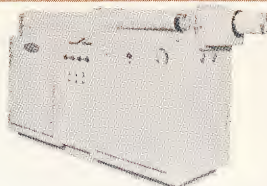
*McPherson* offers a complete line of instruments to study the spectral range from soft X-ray to near infrared



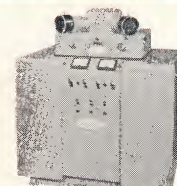
0.5 AND 1 METER  
COMBINATION SCANNING  
MONOCHROMATOR,  
SPECTROGRAPH,  
DIRECT READER  
RANGE 1050A - 80,000A\*



1 METER SCANNING MONO-  
CHROMATOR CZERNY-TURNER  
RANGE 2,000A - 10,000A\*



2 METER COMBINATION SPECTRO-  
GRAPH AND SCANNING MONO-  
CHROMATOR, EAGLE  
RANGE 300A - 6,800A\*



.5 METER SCANNING MONOCHRO-  
MATOR SEYA-NAMIOKA  
RANGE 300A - 6,000A\*

These instruments represent a partial list of the stand-  
ard spectrometers manufactured by McPherson.

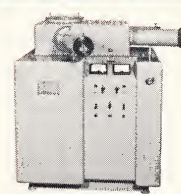
\*The range and resolution of these instruments may be increased by  
interchanging gratings.



WAVELENGTH COMPARATOR  
ACCURATE TO 1 MICRON IN 10 INCHES



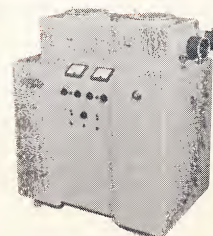
2 METER GRAZING INCIDENCE VACUUM U. V.  
SCANNING MONOCHROMATOR,  
ROWLAND CIRCLE  
RANGE 10A - 2,000A\*



1 METER SCANNING  
MONOCHROMATOR SEYA  
AND NORMAL INCIDENCE  
RANGE 300A - 6,000A\*



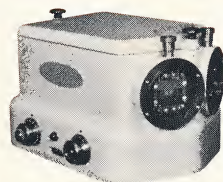
0.5 AND 1 METER  
COMBINATION SCANNING  
MONOCHROMATOR,  
SPECTROGRAPH,  
DIRECT READER  
RANGE 1850A - 40,000A\*



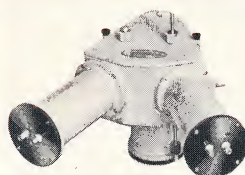
1 METER NORMAL INCIDENCE  
SCANNING MONOCHROMATOR  
MCPHERSON TYPE  
RANGE 300A - 6,000A\*



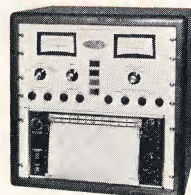
2 METER GRAZING INCIDENCE VACUUM U. V.  
SPECTROGRAPH, VARIABLE POSITION  
RANGE 10A - 2,000A\*



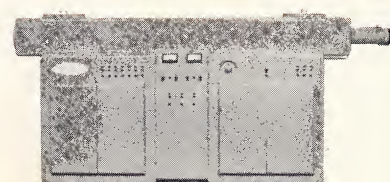
0.3 METER PLANE GRATING  
SCANNING MONOCHROMATOR  
WITH CORRECTED OPTICS  
AND SNAP-IN TYPE GRATING  
RANGE 1050A - 160,000A\*



DOUBLE BEAM SAMPLE  
CHAMBER WITH DETECTORS  
90% EFFICIENCY  
AT LYMAN ALPHA



DUAL-PEN RATIO  
RECORDER FOR SIMULTANEOUS  
CHARTING OF TWO FUNCTIONS.



3 METER HIGH RESOLUTION SCANNING  
MONOCHROMATOR CZERNY-TURNER  
RANGE 1,000A - 6,000A\*





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Technical Sales and Service Offices in La Canada, California; Acton, Massachusetts; London; Germany-Switzerland-Austria; Melbourne; Paris; Tel Aviv; Tokyo.